

Tripp et al.  
U.S. Serial No. 10/689,856  
Filed 10/20/2003  
Page 1 of 5

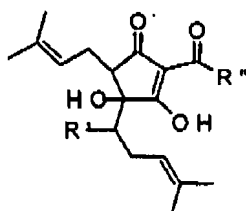
### AMENDMENT TO THE CLAIMS

*A listing of the claims presented in this patent application appears below. This listing replaces all prior versions and listings of the claims in this patent application.*

#### 1-213 (Previously Canceled)

214. (Currently Amended) A method of preserving joint health comprising the step of administering a composition comprising dihydro-isohumulone, a component selected from the group consisting of oleanolic acid and ursolic acid, ~~dihydro-isohumulone~~, and a component selected from the group consisting of rosemary, an extract derived from rosemary, and a compound derived from rosemary.

215. (Previously Presented) The method according to Claim 214, wherein the dihydro-isohumulone has a structure according to Genus A having the formula:



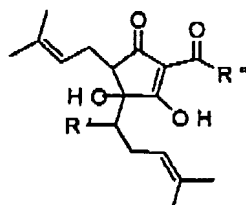
(Genus A),

wherein R' is hydroxyl, and wherein R'' is CH<sub>2</sub>CH(CH<sub>3</sub>)<sub>2</sub>.

216. (Currently Amended) A method of preserving joint health comprising the step of administering a composition comprising dihydro-isocophumulone, a component selected from the group consisting of oleanolic acid and ursolic acid, ~~dihydro-isocophumulone~~, and a component selected from the group consisting of rosemary, an extract derived from rosemary, and a compound derived from rosemary.

Tripp et al.  
 U.S. Serial No. 10/689,856  
 Filed 10/20/2003  
 Page 2 of 5

217. (Previously Presented) The method according to Claim 216, wherein the dihydro-isocohumulone has a structure according to Genus A having the formula:

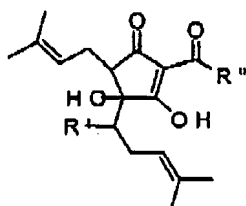


(Genus A),

wherein R' is hydroxyl, and wherein R'' is  $\text{CH}(\text{CH}_3)_2$ .

218. (Currently Amended) A method of preserving joint health comprising the step of administering a composition comprising dihydro-isoadhumulone, a component selected from the group consisting of oleanolic acid and ursolic acid, dihydro-isoadhumulone, and a component selected from the group consisting of rosemary, an extract derived from rosemary, and a compound derived from rosemary.

219. (Previously Presented) The method according to Claim 218, wherein the dihydro-isoadhumulone has a structure according to Genus A having the formula:



(Genus A),

wherein R' is hydroxyl, and wherein R'' is  $\text{CH}(\text{CH}_3)\text{CH}_2\text{CH}_3$ .

220. (Previously Presented) A method as in any of claims 214 - 219, wherein the compound derived from rosemary is selected from the group consisting of 1,8-cineole, 19-alpha-hydroxyursolic acid, 2-beta-hydroxyoleanolic acid, 3-O-acetyloleanolic acid, 3-O-acetylursolic acid, 6-methoxy-luteolin-7-glucoside, 6-methoxyluteolin, 6-methoxyluteolin-7-glucoside, methoxyluteolin-7-methylether, 7-ethoxy-rosmanol, 7-methoxy-rosmanol, alpha-amyrin, alpha-humulene, alpha-hydroxyhydrocaffeic acid, alpha-pinene, alpha-terpinene, alpha-terpinenyl acetate, alpha-terpineol, alpha-thujone, apigenin, apigenin-7-glucoside, curcumen, benzyl-

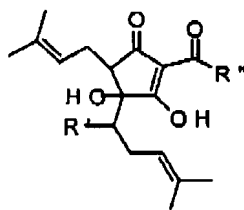
Tripp et al.  
 U.S. Serial No. 10/689,856  
 Filed 10/20/2003  
 Page 3 of 5

alcohol, .beta.-amyrenone, .beta.-amyrin, .beta.-elemene, .beta.-pinene, betulin, betulinic acid, borneol, bornyl-acetate, caffeic acid, camphene, camphor, carnosic acid, carnosol, carvacrol, carvone, caryophyllene, caryophyllene-oxide, chlorogenic acid, diosmetin, gamma-terpinene, hesperidin, isoborneol, limonene, luteolin, luteolin-3'-O-(3"-O-acetyl)-.beta.-D-glucuronide, luteolin-3'-O-(4"-O-acetyl)-.beta.-D-glucuronide, luteolin-3'-O-.beta.-D-- glucuronide, luteolin-7-glucoside, methyl-eugenol, myrcene, neo-chlorogenic acid, nepetin, octanoic acid, oleanolic acid, p-cymene, piperitenone, rosmanol, rosmarinic acid, rosmarinic acid, rosmaridiphenol, rosemarinic acid, rosmarinol, rosmariquinone, sabinene, sabinyl acetate, salicylates, salicylic acid-2-.beta.-D-glucoside, squalene, terpinen-4-ol, terpinolene, thymol, trans-anethole, trans-carveol, ursolic acid, verbenone, and zingiberene.

221. (Previously Presented) A method as in any of claims 214-220, wherein the composition further comprises glucosamine or chondroitin sulfate.

222. (Withdrawn) A composition comprising a component selected from the group consisting of oleanolic acid and ursolic acid, dihydro-isohumulone, and a component selected from the group consisting of rosemary, an extract derived from rosemary, and a compound derived from rosemary.

223. (Withdrawn) The composition of Claim 214, wherein the dihydro-isohumulone has a structure according to Genus A having the formula:



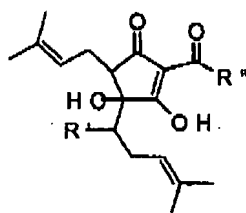
(Genus A),

wherein R' is hydroxyl, and wherein R'' is CH<sub>2</sub>CH(CH<sub>3</sub>)<sub>2</sub>.

Tripp et al.  
U.S. Serial No. 10/689,856  
Filed 10/20/2003  
Page 4 of 5

224. (Withdrawn) A composition comprising a component selected from the group consisting of oleanolic acid and ursolic acid, dihydro-isocohumulone, and a component selected from the group consisting of rosemary, an extract derived from rosemary, and a compound derived from rosemary.

225. (Withdrawn) The composition of Claim 214, wherein the dihydro-isocohumulone has a structure according to Genus A having the formula:

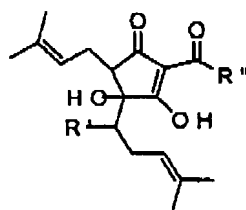


(Genus A),

wherein R' is hydroxyl, and wherein R'' is  $\text{CH}(\text{CH}_3)_2$ .

226. (Withdrawn) A composition comprising a component selected from the group consisting of oleanolic acid and ursolic acid, dihydro-isoadhumulone, and a component selected from the group consisting of rosemary, an extract derived from rosemary, and a compound derived from rosemary.

227. (Withdrawn) The composition according to Claim 226, wherein the dihydro-isoadhumulone has a structure according to Genus A having the formula:



(Genus A),

wherein R' is hydroxyl, and wherein R'' is  $\text{CH}(\text{CH}_3)\text{CH}_2\text{CH}_3$ .

Tripp et al.  
U.S. Serial No. 10/689,856  
Filed 10/20/2003  
Page 5 of 5

228. (Withdrawn) A composition as in any of claims 222-227, wherein the compound derived from rosemary is selected from the group consisting of 1,8-cineole, 19-alpha-hydroxyursolic acid, 2-.beta.-hydroxyoleanolic acid, 3-O-acetyloleanolic acid, 3-O-acetylursolic acid, 6-methoxy-luteolin-7-glucoside, 6-methoxyluteolin, 6-methoxyluteolin-7-glucoside, methoxyluteolin-7-methylether, 7-ethoxy-rosmanol, 7-methoxy-rosmanol, alpha-amyrin, alpha-humulene, alpha-hydroxyhydrocaffeic acid, alpha-pinene, alpha-terpinene, alpha-terpinenyl acetate, alpha-terpineol, alpha-thujone, apigenin, apigenin-7-glucoside, curcumene, benzyl-alcohol, .beta.-amyrenone, .beta.-amyrin, .beta.-elemene, .beta.-pinene, betulin, betulinic acid, borneol, bornyl-acetate, caffeic acid, camphene, camphor, carnosic acid, carnosol, carvacrol, carvone, caryophyllene, caryophyllene-oxide, chlorogenic acid, diosmetin, gamma-terpinene, hesperidin, isoborneol, limonene, luteolin, luteolin-3'-O-(3"-O-acetyl)-.beta.-D-glucuronide, luteolin-3'-O-(4"-O-acetyl)-.beta.-D-glucuronide, luteolin-3'-O-.beta.-D-- glucuronide, luteolin-7-glucoside, methyl-eugenol, myrcene, neo-chlorogenic acid, nepetin, octanoic acid, oleanolic acid, p-cymene, piperitenone, rosmanol, rosmaric acid, rosmaricine, rosmaridiphenol, rosemarinic acid, rosmarinol, rosmariquinone, sabinene, sabinyl acetate, salicylates, salicylic acid-2-.beta.-D-glucoside, squalene, terpinen-4-ol, terpinolene, thymol, trans-anethole, trans-carveol, ursolic acid, verbenone, and zingiberene.

229. (Withdrawn) A composition as in any of claims 222-228, wherein the composition further comprises glucosamine or chondroitin sulfate.